

## CLAIMS

What is claimed is:

1. A microscope comprising: a stand, an element rotatable about an axis wherein the element is received by the stand and the rotatable element carries several optical elements; a flap provided at the stand, through which the rotatable element is accessible from the outside; and a preloaded bolt element which coacts with the flap in such a way that when the flap is open, the bolt element automatically locks the rotatable element.
2. The microscope as defined in Claim 1, wherein the bolt element is a pin.
3. The microscope as defined in Claim 1, wherein the bolt element is a lever.
4. The microscope as defined in Claim 1, wherein the stand comprises a stand base section, a stand column section, and a transverse main section, the rotatable element being provided in the transverse main section.
5. The microscope as defined in Claim 4, wherein the transverse main section has embodied an end face; and the end face is equipped with the flap through which the rotatable element is accessible.
6. The microscope as defined in Claim 1, wherein the rotatable element serves to receive at east one exchangeable optical element.

7. The microscope as defined in Claim 1, wherein the rotatable element is rotatable in motorized fashion.
8. The microscope as defined in Claim 1, wherein the rotatable element is equipped with a cylindrical element that serves to receive at least one optical element; and the cylindrical element has several grooves into which the bolt element engages and locks the rotatable element.
9. A microscope comprising: a stand, an element rotatable about an axis wherein the element is received by the stand and the rotatable element carries several optical elements; a flap provided at the stand, through which the rotatable element is accessible from the outside; and a preloaded pin which coacts with the flap in such a way that when the flap is open, the pin automatically locks the rotatable element.
10. The microscope as defined in Claim 9, wherein the rotatable element is equipped with a cylindrical element that serves to receive at least one optical element; and the cylindrical element has several grooves into which the pin engages and locks the rotatable element.
11. The microscope as defined in Claim 10, wherein the pin is equipped with a lug that protrudes perpendicularly from the pin, the lug penetrating through a slot so that the pin is guided by the slot; and the lug of the pin engages into at least one groove of the cylindrical element and locks the rotatable element.

12. The microscope as defined in Claim 9, wherein the pin is impinged upon by a spring in such a way that when the flap is removed, the pin is movable in the direction of an end face of a transverse main section of the microscope.

13. The microscope as defined in Claim 12, wherein when the flap is closed, a front surface of the pin coacts with an extension of the flap in such a way that the pin is pushed away from the end face of the transverse main section and the spring is compressed.

14. A microscope comprising: a stand, an element rotatable about an axis wherein the element is received by the stand and the rotatable element carries several optical elements; a flap provided at the stand, through which the rotatable element is accessible from the outside; and a preloaded lever which coacts with the flap in such a way that when the flap is open, the lever automatically locks the rotatable element.

15. The microscope as defined in Claim 14, wherein the rotatable element is equipped with a cylindrical element that serves to receive at least one optical element; and the cylindrical element has several grooves into which the lever engages and locks the rotatable element.

16. The microscope as defined in Claim 15, wherein the lever is equipped with a lug that protrudes from the lever, the lug engaging into at least one groove of the cylindrical element and locking the rotatable element.

17. The microscope as defined in Claim 14, wherein the lever is impinged upon by a spring in such a way that when the flap is removed, the lever pivots in the direction of an end face of a transverse main section of the microscope.

18. The microscope as defined in Claim 17, wherein when the flap is closed, the lever coacts with the extension of the flap in such a way that the lever is pushed away from the end face of the transverse main section and the spring is compressed.